

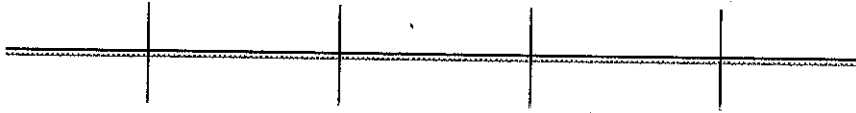
DIMENSIONAL ANALYSIS

Show your work including cancelling all units.

- 1) How many inches are there in a mile?



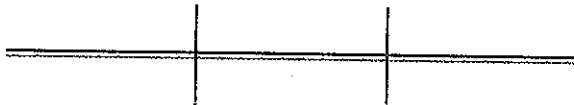
- 2) How many seconds are in a year?



- 3) How many pencils are there in 3 dozen pencils?



- 4) An adult mosquito's lifespan is about 16 days. How many minutes is that?



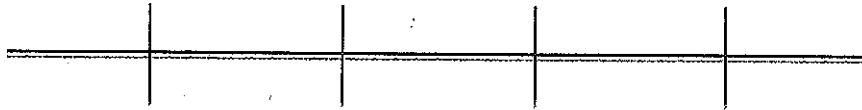
- 5) You decide to rent a snow-cone machine and the rental fee is \$6.50 per $\frac{1}{2}$ hour. How much will it cost to rent the machine for 4 hours?



- 6) Convert 54 yards to inches.



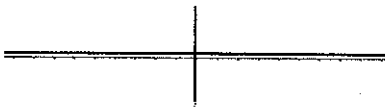
7) If there are three teaspoons in a tablespoon, 16 tablespoons in a cup, 2 cups in a pint, and 8 pints in a gallon. How many teaspoons are in a 1000-gallon swimming pool?



8) How many minutes are there in the month of May?



9) You can count 65 numbers per minute. How long would it take you to count to 1 million?



10) If the Federal Budget for 2007 was 2.8 trillion dollars, how much money did the government spend each second?



11) Convert 9.75×10^7 ounces of water to tons. (16 oz = 1 lb and 1 ton = 2000 lbs)



12) In Europe, they measure their weight in kilograms. If someone weighs 130 pounds, what is their weight in kilograms? (1 lb = 454 grams)

